1540nm, Conduction-Cooled, QCW, Single Bar

Features

- QCW operation
- Hard soldering (AuSn)

Device Specification

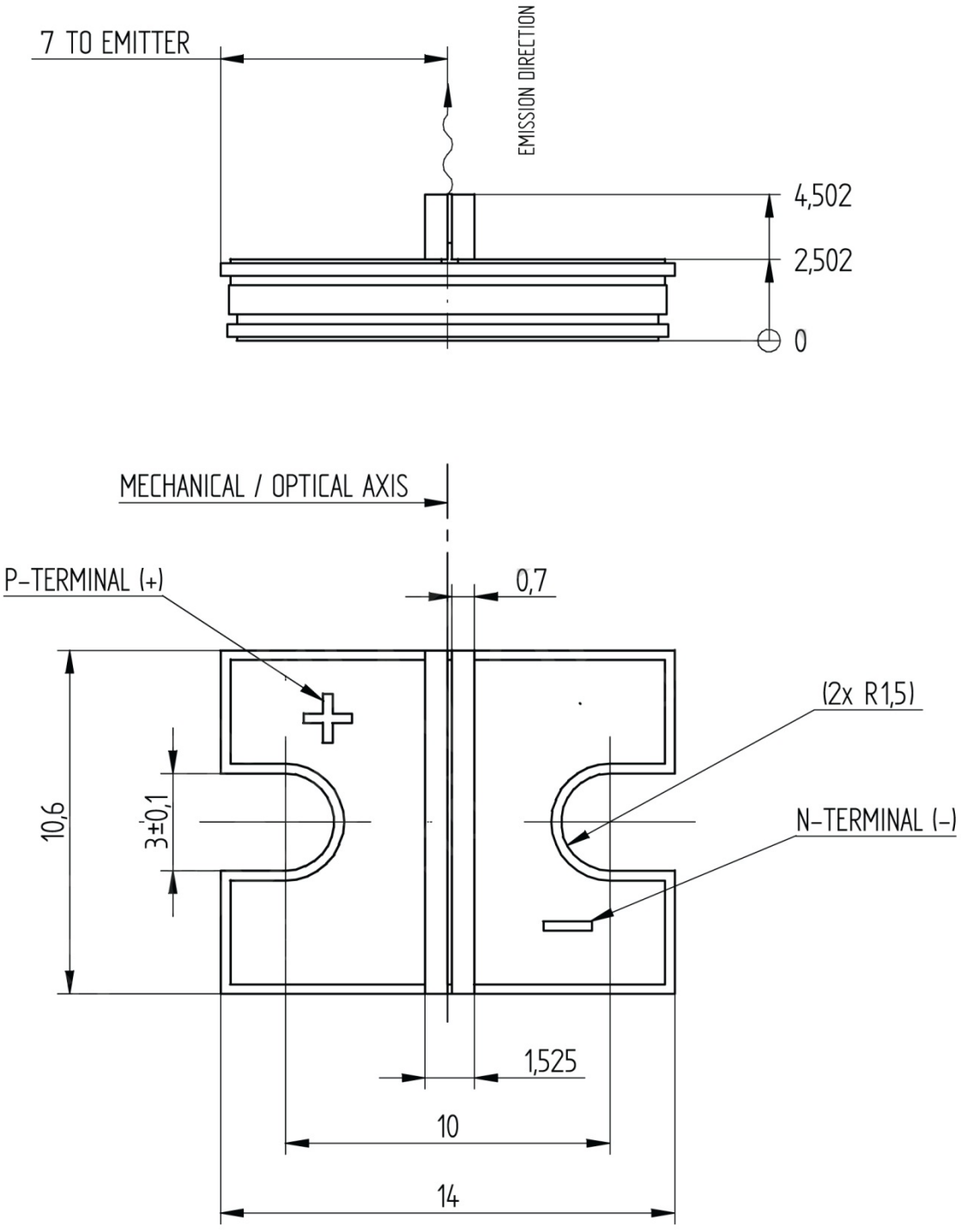
Optical Parameters[1]	Units	
Center Wavelength Range[2]	nm	1540
Center Wavelength Tolerance[2]	nm	±10
Output Power[3]	W	70
Number of Bars[4]	#	1
Spectral Width (FWHM)	nm	<20
Slope Efficiency	W/A	>0.45
Fast-Axis Divergence without Optics	degree	70
Fast-Axis Divergence with Fast-Axis Collimation	mrad	<8
Slow-Axis Divergence	degree	<10
Wavelength Temp. Coefficient	nm/°C	0.62

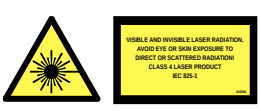
Electrical Parameters[1]	Units	
Power Conversion Efficiency	%	>22
Threshold Current (I_{TH})	A	<15
Operating Current (I_{OP})	A	<160
Operating Voltage (V_{OP})	V	<2
Duty Cycle[5]	%	1
Pulse Length[5]	usec	500

Thermal Parameters		
Operating Temperature Range[6]	°C	+20 to +35
Storage Temperature Range[6]	°C	0 to +55
Recommended Heatsink Capacity per Bar	W	>70

[1]Data at 20°C heat sink temperature.
[2]Custom configurations on request.
[3]Reduced lifetime if used above nominal operating conditions.
[4]For higher bar count, refer to vertical stack QCW datasheets.
[5]Custom pulse length/duty cycles on request.
[6]A non-condensing environment is required for storage and operation below the ambient dew point.

Package Dimension





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